

MICHAEL SENDKER

Software Developer

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WHO I AM

Software engineer specializing in rapid problem-solving across the full technology stack. I architect testing frameworks, optimize build systems, and tackle complex integration challenges from high-performance computing to machine learning pipelines. My experience spans streamlining 2M+ line codebases, building CI/CD infrastructure, and developing tools that become standard across engineering teams. Currently deepening computer science fundamentals through self-directed study in algorithms, compilers, and numerical methods to complement extensive practical experience. Whether debugging legacy systems or implementing modern DevOps workflows, I find efficient solutions to technical problems.

EXPERIENCE

2022 – Current

Onto Innovation

Software Engineer

[Python](#) — [C++](#) — [C#](#) — [C](#) — [pytest](#) — [scikit-learn](#) — [pandas](#) — [Azure DevOps](#)

- Led critical compiler upgrade for 2M+ line optical measurement software (NanoDiffract), ensuring compatibility and performance across legacy codebase
- Architected and developed nanopyttest, a Python-based testing framework using pytest and SQLAlchemy that replaced legacy C# tooling and became the standardized testing solution across the engineering team
- Implemented comprehensive CI/CD infrastructure including PR validation, build machines, and automated testing pipelines for multiple product lines
- Built real-time visualization tools for test result history and neural network training data, enabling R&D teams to analyze CI performance and model convergence
- Developed cross-platform testing capabilities extending automated testing framework to cover both traditional software (NanoDiffract) and ML products (SpectraProbe, AutoML)
- Designed distributed system for managing 2GB+ recipe datasets with automated server deployment and distribution
- Maintained enterprise build systems including Visual Studio solutions and installer frameworks for multiple product deployments

2024

Maudlin News

Personal Project

[Python](#) — [CPython](#) — [nltk](#) — [pandas](#) — [matplotlib](#) — [NumPy](#)

Architected end-to-end news analysis system with 100+ custom web scrapers optimized for performance across diverse site architectures. Implemented sentiment analysis pipeline and custom topic clustering algorithm using agglomerative clustering with cosine similarity metrics. Translated core algorithms to CPython for 10x performance improvements in data processing throughput. Generated a static site for topical election polling analysis.

2021 – 2022

HtmMbs LLC

Software Developer

[Python](#) — [Flask](#) — [SQLAlchemy](#) — [PostgreSQL](#) — [jQuery](#) — [ReactJS](#) — [Odo](#)

- Built a sophisticated perpetual inventory system with real-time tracking capabilities
- Created allocation management tool for customized legacy Odo ERP system, streamlining warehouse operations
- Optimized Arduino LED indicator code, reducing codebase by 89% while maintaining functionality
- Established development infrastructure including company wiki, GitHub organization, 1Password security system, and improved backup protocols

- 2020 – 2021 **Healthy Brands, LLC** **Contract Developer**
 Python — BeautifulSoup4 — Django — SQLAlchemy — PostgreSQL — Arch Linux
- Developed multithreaded Amazon BuyBox monitoring system with real-time alert capabilities for e-commerce operations
 - Built and deployed ask.fiteyes.com, a Django-based Q&A platform extending Biostar with custom features and upstream contributions
 - Configured and maintained multiple VPS deployments with custom systemd services and automation
 - Implemented systems programming solutions including Systemd Units and Timers for infrastructure automation
- 2020 – 2021 **Laser System Interface** **Contract**
 C# — Windows Presentation Foundation — SQLite
 Developed GUI interface for medical laser system used in dermatological treatments.
- 2017 – 2020 **Glendale Painting Corporation** **Office Manager, Technology Director**
 Python — GatsbyJS — ReactJS — GraphQL — Joomla — Quickbooks — Excel
- Designed and built company website with modern frameworks, improving online presence and lead generation
 - Developed data analysis tools for county parcel data to optimize Facebook marketing campaigns and target demographics
 - Automated bookkeeping processes and managed general office operations

EDUCATION

- 2008 – 2010 **Philosophy and Classics** **Florida State University**
 Focused on Ancient Philosophy, Aristotle, Philosophy of Mind, and Symbolic Logic. Also studied Ancient Greek and Latin. President of Philosophy Club (2010)
- 2007 – 2008 **Philosophy** **University of South Florida**
 General introductory classes, Social Philosophy, Critical Thinking

LANGUAGES

English — native
French — fluent
Spanish — rudimentary
Latin — for fun

FREE TIME

Daily runner and cyclist with a passion for poetry, classics, and political discourse. Currently pursuing self-directed computer science study including algorithms, compilers, and numerical methods. Enjoy building personal projects including static site generators implemented across multiple languages (Python, C++, C) and exploring compiler design.